PE NUMBER: 0604421F
PE TITLE: Counterspace Systems

	RDT&E BUDGET ITEM	I JUSTI	FICATI	ON SH	EET (R	-2 Exhi	bit)		DATE	Februar	y 2003
	T ACTIVITY System Development and Demons	tration (SDD)		UMBER ANI 14421F (O TITLE Counters	space Sy	/stems			
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	0	39,458	82,565	76,061	27,829	32,813	28,922	77,020	Continuing	TBD
A001	Counter Satellite Communications System	0	9,051	9,575	6,256	6,355	6,530	6,696	6,823	Continuing	TBD
A002	Counter Surveillance Reconnaissance System	0	23,528	66,378	53,363	4,985	14,185	9,817	3,726	Continuing	TBD
A003	Rapid Identification Detection and Reporting System (RAIDRS)	0	6,879	6,612	16,442	16,489	12,098	12,409	66,471	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

This program supports the conduct of critical planning, technology maturation/insertion, and system acquisition in support of Air Force space control systems and associated command and control development to meet current and future military space control needs. Development and acquisition of counterspace systems will be conducted, capitalizing on the technology development and risk reduction efforts of PE 0603438F, Space Control Technology. This funding supports all phases of the acquisition process: concept development, risk reduction, design, demonstration, and production. Space control systems include both offensive counterspace (OCS) and defensive counterspace (DCS) systems. OCS systems include the means to disrupt, deny, degrade, or destroy an adversary's space systems, or the information they provide, which may be used for purposes hostile to U.S. national security interests. DCS systems include both active and passive measures to protect U.S. and friendly space systems (satellites, communications links, and supporting ground systems) from natural threats and from enemy attempts to negate or interfere with space operations. This includes development efforts to prevent adversarial ability to use U.S. space systems and services for purposes hostile to U.S. national security interests.

(U) B. Budget Activity Justification

This program is in Budget Activity 5, System Development and Demonstration, because it supports the demonstration, engineering and manufacturing development of counterspace and space control systems.

Page 1 of 14 Pages

Exhibit R-2 (PE 0604421F)

	RDT&E BUDGET ITEM JUSTIFICATION	ON SHEET (R-2 Exhib	oit)	DATE Febru	ary 2003
	GET ACTIVITY System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604421F Counters	pace Systems	·	
(U)	C. Program Change Summary (\$ in Thousands)				
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated Value	FY 2002	FY 2003 40,053 40,053	<u>FY 2004</u> 87,863	<u>Total Cost</u> TBD
(-)	a. Congressional/General Reductions b. Small Business Innovative Research		-424		
	c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions		-171		
(U) (U)	Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR		39,458	-5,298 82,565	TBD
(U)	Significant Program Changes: None				
		Page 2 of 14 Pages		Exhibit R-2	(PE 0604421F)

	RDT&E BUDGET ITEM	JUSTIF	ICATIO	ON SHE	ET (R-	2A Exh	ibit)		DATE	Februar	y 2003
-	SET ACTIVITY System Development and Demons	stration (SDD)	-	UMBER ANI 14421 F (O TITLE Counters	space S	ystems			PROJECT A001
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
A001	Counter Satellite Communications System	0	9,051	9,575	6,256	6,355	6,530	6,696	6,823	Continuing	TBI
	This effort supports concept exploration and foliand control derived from technologies examined design and development, software design and in USSTRATCOM requirements. Budget Activity Justification: This program is in Budget Activity 5, System D counterspace and space control systems.	l in PE 0603 tegration, te	438F, Spac sting and pr	e Control T rocurement	echnology, of a capabil	in the area ity to provi	of Offensiv de jamming	ve Counter s g of satellite	Space. It in communic	ncludes syste cations signa	m hardware Is in response to
(U) (U) (U) (U)	FY 2002 (\$ in Thousands) \$0 Accomplishments/Planne \$0 No Activity \$0 Total	d Program									
(U) (U) (U) (U) (U) (U)	FY 2003 (\$ in Thousands) \$0 Accomplishments/Planne \$7,574 Continue to develop, inte \$1,427 Program Office and other \$50 Developmental Test/Oper \$9,051 Total	grate, test, as Technical S	Support		transportabl	e Counter S	Satellite Co	mmunicatio	ons System		
(U) (U) (U) (U)	FY 2004 (\$ in Thousands) \$0 Accomplishments/Planne \$8,000 Continue to develop, inte and control \$1,525 Program Office and other	grate, test, a		ghtweight,	transportabl	e Counter S	Satellite Co	mmunicatio	ons System	and associate	ed command

Exhibit R-2A (PE 0604421F)

Project A001

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) DATE February 2003
=	PE NUMBER AND TITLE PROJECT System Development and Demonstration (SDD) 0604421F Counterspace Systems A001
(U)	A. Mission Description Continued
(U) (U) (U)	FY 2004 (\$ in Thousands) Continued \$50 Developmental Test/Operational Test (DT/OT) support \$9,575 Total
(U)	B. Project Change Summary None
	C. Other Program Funding Summary (\$ in Thousands) FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost to Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete AF RDT&E
(U)	Other APPN
(U)	D. Acquisition Strategy All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible.
(U)	E. Schedule Profile
	$rac{ ext{FY 2002}}{1} \qquad \qquad rac{ ext{FY 2003}}{2} \qquad \qquad rac{ ext{FY 2004}}{3} \qquad \qquad$
(U)	Contract award for Counter Comm system development * (PE0603438F)
(U)	Lightweight SATCOM Jammer system development starts * (PE0603438F)
	Training and Tech Order Development X
(U) (U)	System development (systems 2 & 3) Deliver 1st system X X
(U)	Operational Assessment - 1st system X
(U)	Training and Tech Order Development (systems 2 & 3) X
1	* = Completed X= Scheduled Contract award slipped from Jan 02 to Apr 02 due to slower than projected development of security procedures and processes for the new system development. This,
	along with contractor's proposal of 16 months to deliver vs government estimate of 14 months, caused 1st system delivery to slip to 1st Qtr/FY04. Deliveries planned
Р	roject A001 Page 4 of 14 Pages Exhibit R-2A (PE 0604421F)

RDT&E BUDGET ITEM JUSTIFICA	TION			xhibit)		DAT	Fel	oruary	2003	
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD))	PE NUMBER 0604421		terspa	ce Sys	tems				PRO. A00	
(U) E. Schedule Profile Continued		FY 2002			<u>FY 2</u>	2003			FY 2	2004	
for 4th Qtr FY04 slipped to 1st Qtr FY05.	1	2 3	4	1	2	3	4	1	2	3	4
Project A001	Pag	e 5 of 14 Page	s.				F	- xhihit F	R-2A (PI	E 06044	121F)

	RDT&E PROC	SRAM ELE	MENT/PF	OJECT C	OST BI	REAKDO	WN (R-3))	DATE F (ebruary 2	003
	SET ACTIVITY System Developmer	nt and Demo	onstration (SDD)		ER AND TITLE 21F Count	erspace S	ystems		_	PROJECT A001
(U)	A. Project Cost Breakdown	n (\$ in Thousan	<u>ds</u>)				EX	2002	EV 20	.02	EV 2004
(II)	Develop interprets test and	£-14 CATCOM	Tamanan asasah:	:			<u>FY</u>	2 <u>002</u> 0	FY 20 7,57		FY 2004 8,000
(U)	Develop, integrate, test, and		Jammer capaon	ity				•	1,42		,
(U)	Program Office technical sup	pport (FFRDC)						0		50	1,525
(U)	DT/OT testing support							0			50
(U)	Total							0	9,05	51	9,575
(U)	B. Budget Acquisition History	ory and Plannir	ng Information	(\$ in Thousand	<u>ds</u>)						
(U)	Performing Organizations:										
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	<u>Office</u>	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	FY 2003	FY 2004	Complete	Program						
	Product Development Organ			-							
	MAPIC (TRW)	CPAF	9 April 2002	N/A	N/A	0	0	7,574	8,000	Continuing	TBD
	Support and Management Or	ganizations	-								
	SMC, FFRDC, Various	CPAF	Various	N/A	N/A	0	0	1,427	1,525	Continuing	TBD
	SETAs										
	Test and Evaluation Organiz	ations									
	AFOTEC	MIPR	TBD	N/A	N/A	0	0	50	50	Continuing	TBD
	Note: MAPIC Contract awar	rded in FY02 un	der PE 0603438	F, Space Contro	ol Technolo	gy					
				•	·	Total Prior	Budget	Budget	<u>Budget</u>	Budget to	<u>Total</u>
	Subtotals					to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program
	Subtotal Product Developme	ent				0	0	7,574	8,000	TBD	TBD
	Subtotal Support and Manag					0	0	1,427	1,525	TBD	TBD
	Subtotal Test and Evaluation					0	0	50	50	TBD	TBD
	Total Project					0	0	9,051	9,575	TBD	TBD
	-										
Pi	roject A001			Pag	e 6 of 14 Pa	ges			Exhib	oit R-3 (PE ()604421F)

		E BUDGET ITEM	JUSTIF	ICATIO				ibit)		DATE	Februar	y 2003
	ET ACTIVITY System Develo	pment and Demons	ration (SDD)		1UMBER AND 14421F	TITLE Counters	space S	ystems			PROJECT A002
	COST (\$ in ⁻	Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
A002	Counter Surveillance	e Reconnaissance System	0	23,528	66,378	53,363	4,985	14,185	9,817	3,726	Continuing	ТВІ
	associated command development, softwar requirements. This p reconnaissance system Budget Activity Justi	fication udget Activity 5, System De	chnologies d testing ar ategration a	examined in ad procurement and test stud	n PE 06034. nent to provies, and rela	38F, Space vide a capab ated suppor	Control Te vility to count activities r	chnology. nter space b necessary fo	It includes pased syster or the develo	system hard ns in respon opment of a	dware desigi nse to USST a counter sui	n and PRATCOM rveillance
(U) (U) (U) (U)	FY 2002 (\$ in Thous. \$0 \$0 \$0	ands) Accomplishments/Planned No Activity Total	Program									
(U) (U) (U)	FY 2003 (\$ in Thous. \$0 \$18,728	ands) Accomplishments/Planned Continue engineering and Includes acquisition of an System Requirements Rev	manufactuı EMD unit.	Also inclu	des source s	selection an	d contract a	ward for th	e Concept l			
(U) (U) (U)	\$3,500 \$500 \$800	Continue specific technology Provide support for comport Continue development and vulnerability analysis of the	gy develop nent field t l implemen	oment for the esting.	e Counter S	Surveillance	Reconnaiss	sance Syste	m.	ance Recor	nnaissance tl	nreats. Includes
(U)	\$23,528	Total										

Exhibit R-2A (PE 0604421F)

Project A002

	RD1	Γ&E BUDGET IT	EM JUS	TIFICAT	TON SH	EET (R-:	2A Exhi	bit)		February	/ 2003
_	GET ACTIVITY - System Dev e	elopment and Dem	onstratio	on (SDD)	-	NUMBER ANI 604421F		pace Sys	tems		PROJECT A002
(U)	A. Mission Desc	ription Continued									
(U) (U) (U)	FY 2004 (\$ in Th \$0 \$51,378	nousands) Accomplishments/P Continue concept de Includes acquisition Preliminary Design	evelopment a of an EMD u	nd risk reduc anit. Include				•			
(U) (U) (U) (U)	\$6,500 \$4,900 \$1,300 \$2,300 \$66,378	Risk reduction comp Continue specific te Provide support for Continue developme vulnerability analyst	oonent develong develong develong develong develonent find and implement and implement develonent develonent and implement and implement and implement develonent developed deve	opment to supple to proper to supple	r the Counter	Surveillance	Reconnaissa	•	Surveillance	Reconnaissance the	reats. Includes
(U)	B. Project Chan										
(U)	C. Other Progra	m Funding Summary (\$ FY 2002 Actual	in Thousand FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Co
(U) (U)	Other APPN OPAF (PE 06044 Counterspace Sys P-68	21F),			9,880	47,524	38,147	31,179	35,337	Continuing	ТВІ
(U)	D. Acquisition St All contracts fund	t rategy led in this program elemen	nt will be awa	arded using c	ompetitive pr	ocedures to t	the maximum	n extent possi	ble.		
(U)	E. Schedule Prof	<u>üle</u>				FY 2002		FY 2	003	FY ?	<u>2004</u>
P	Project A002				Page 8 of	14 Pages				Exhibit R-2A (P	E 0604421F)

Г	RDT&E BUDGET ITEM JUSTIFICAT	ION	SHEE	T (R	-2A E	xhibit	:)		DAT		oruary	2003	
	GET ACTIVITY - System Development and Demonstration (SDD)				ND TITLE Count	terspa	ce Sys	stems	•			PRO. A00	
(U) (U) (U) (U) (U) (U) (U) (U) (U) (U)		1 *	0604			terspa		2003 3	4 X X	1 X	FY 2 2		
F	Project A002	Pag	e 9 of 14	Pages					E	Exhibit F	R-2A (P	E 06044	.21F)

O. O. O. O. O. O. O. O.		RDT&E PRO	GRAM ELE	EMENT/P	ROJECT C	OST BI	REAKDO	WN (R-3))	DATE F	ebruary 2	2003
CU Acquisition of Counter SR EMD unit			nt and Demo	onstration	(SDD)			erspace S	Systems		-	PROJECT A002
Clip Acquisition of Counter SR EMD unit 0 18,728 18,700 18,700 10 10 10 10 10 10 10	(U)	A. Project Cost Breakdow	n (\$ in Thousan	<u>ds</u>)								
CU Risk reduction component development								<u>FY</u>	<u>2002</u>	FY 20	<u>)03</u>	FY 2004
Clip	(U)	Acquisition of Counter SR l	EMD unit						0	18,7	28	51,378
CU Support for component field testing 0 500	(U)	Risk reduction component of	levelopment						0		0	6,500
(U) Develop and implement modeling and simulation codes (U) Total 0 0 23,528 (U) B. Budget Acquisition History and Planning Information (\$ in Thousands) (U) Performing Organizations: Contractor or Contract Government Method/Type Award or Performing Project Performing or Funding Obligation Activity Office Total Prior Budget Budget Budget Omplete Date EAC EAC to FY 2002 FY 2003 FY 2004 Complete Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A N/A 0 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A N/A 0 0 0 500 1,000 Continuing AFRL N/A N/A N/A N/A N/A 0 0 0 500 1,000 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Subtotals Subtotals Product Development 0 0 0 1,200 3,000 TBD Subtotal Support and Management 1 Total Prior Budget Budget Budget to 1,200 Subtotal Support and Management 1 Total Prior Budget Budget Budget to 1,200 Subtotal Support and Management 1 Total Prior Budget Budget Budget Total PT 2,200 Subtotal Support and Management 1 Total Prior Subtotal Support and Management 1 Total Prior Sudget Sudget Subtotal Support and Management 1 Total Prior Sudget Sudget Subtotal Support and Management 1 Total Prior Sudget Sudget Sudget Subtotal Support and Management 1 Total Prior Sudget Sudget Sudget Subtotal Support and Management 2 Subtotal Support and Management 2 Subtotal Support and Management	(U)	Technology Development							0	3,50	00	4,900
(U) Total	(U)	Support for component field	l testing						0	50	00	1,300
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands) (U) Performing Organizations: Contractor or Contract Government Method/Type Award or Performing Project Performing or Funding Obligation Activity Office Total Prior Budget Budget Budget to Activity Vehicle Date EAC EAC to FY 2002 FY 2002 FY 2003 FY 2004 Complete Product Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A N/A 0 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A N/A 0 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Subtotal Product Development 0 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 0 1,300 TBD	(U)	Develop and implement mo	deling and simula	ation codes					0	80	00	2,300
(U) Performing Organizations: Contractor or Contract Government Method/Type Award or Performing Project Performing or Funding Obligation Activity Office Total Prior Budget Budget Budget to Activity Vehicle Date EAC EAC to FY 2002 FY 2003 FY 2004 Complete Product Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A N/A 0 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A N/A 0 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget Budget Budget Subtotal Product Development 0 0 1,300 3,000 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD	(U)	Total							0	23,5	28	66,378
Contractor or Contract Government Method/Type Award or Performing Project	(U)	B. Budget Acquisition Hist	tory and Plannir	ng Information	n (\$ in Thousand	<u>ls</u>)						
Government Method/Type Award or Performing Project Performing or Funding Obligation Activity Office Total Prior Budget Budget Budget to Activity Vehicle Date EAC EAC to FY 2002 FY 2002 FY 2003 FY 2004 Complete Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A 0 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A 0 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget Budget Subject to FY 2002 FY 2003 FY 2004 Complete Subtotal Product Development Subtotal Support and Management O 0 1,300 3,000 TBD	(U)	Performing Organizations	<u>:</u>									
Performing or Funding Obligation Activity Office Total Prior Budget Budget Budget to Activity Vehicle Date EAC EAC to FY 2002 FY 2002 FY 2003 FY 2004 Complete Product Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A N/A 0 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A N/A N/A 0 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to 10 1,300 Subtotal Product Development 0 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 0 1,300 TBD		Contractor or	Contract									
Activity Vehicle Date EAC EAC to FY 2002 FY 2003 FY 2004 Complete Product Development Organizations MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology FY 2002 FY 2003 FY 2004 Complete 1 Subtotals to FY 2002 FY 2002 FY 2003 FY 2004 Complete <td></td> <td>Government</td> <td>Method/Type</td> <td>Award or</td> <td>Performing</td> <td>Project</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Government	Method/Type	Award or	Performing	Project						
Product Development Organizations		Performing	or Funding	Obligation	<u>Activity</u>	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
MAPIC (TRW) CPAF 8 Jan 02 TBD TBD 0 0 14,135 57,178 Continuing FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget to Budget to EY 2002 FY 2003 FY 2004 Complete 1 Subtotal Product Development 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 <td< td=""><td></td><td>Activity</td><td><u>Vehicle</u></td><td><u>Date</u></td><td><u>EAC</u></td><td>EAC</td><td>to FY 2002</td><td>FY 2002</td><td>FY 2003</td><td>FY 2004</td><td>Complete</td><td><u>Program</u></td></td<>		Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	EAC	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
FFRDC/SETA CPAF Various TBD TBD 0 0 7,593 4,900 Continuing Support and Management Organizations SMC N/A N/A N/A N/A 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Subtotals to FY 2002 FY 2003 FY 2004 Complete 1 Subtotal Product Development 0 0 0 1,300 3,000 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD		Product Development Organ	nizations									
Support and Management Organizations SMC N/A N/A N/A N/A 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Expression Budget Budget to Expression Exp		MAPIC (TRW)	CPAF	8 Jan 02	TBD	TBD	0	0	14,135	57,178	Continuing	TBD
SMC N/A N/A N/A N/A 0 0 800 2,000 Continuing AFRL N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Subtotals to FY 2002 FY 2003 FY 2004 Complete 1 Subtotal Product Development 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD		FFRDC/SETA	CPAF	Various	TBD	TBD	0	0	7,593	4,900	Continuing	TBD
AFRL N/A N/A N/A N/A N/A 0 0 500 1,000 Continuing Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Subtotals Subtotal Product Development Subtotal Support and Management 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD		Support and Management O	rganizations									
Test and Evaluation Organizations AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to to FY 2002 FY 2002 FY 2003 FY 2004 Complete Subtotal Product Development 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD		SMC	N/A	N/A	N/A	N/A	0	0	800	2,000	Continuing	TBD
AFOTEC/AFRL MIPR TBD TBD TBD 0 0 500 1,300 Continuing Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Subtotals Subtotal Product Development Subtotal Support and Management TBD TBD TBD 0 0 0 500 1,300 Continuing Total Prior Budget Budget Budget Budget to Total Prior Budget Budget Budget TBD TBD 0 0 0 21,728 62,078 TBD TBD TBD TBD 0 0 0 1,300 3,000 TBD		AFRL	N/A	N/A	N/A	N/A	0	0	500	1,000	Continuing	TBD
Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology Total Prior Budget Budget Budget Budget to Subtotals Subtotal Product Development Subtotal Support and Management Development O O 1,300 3,000 TBD		Test and Evaluation Organiz	zations									
SubtotalsTotal PriorBudgetBudgetBudgetBudget toSubtotal Product Developmentto FY 2002FY 2002FY 2003FY 2004CompleteSubtotal Support and Management0021,72862,078TBD		AFOTEC/AFRL	MIPR	TBD	TBD	TBD	0	0	500	1,300	Continuing	TBD
Subtotals to FY 2002 FY 2002 FY 2003 FY 2004 Complete D Subtotal Product Development 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD		Note: MAPIC Contract awa	arded in FY02 un	der PE 060343	88F, Space Contro	ol Technolo	gy					
Subtotal Product Development 0 0 21,728 62,078 TBD Subtotal Support and Management 0 0 1,300 3,000 TBD							Total Prior	Budget	Budget	<u>Budget</u>	Budget to	<u>Total</u>
Subtotal Support and Management 0 0 1,300 3,000 TBD		Subtotals					to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
		Subtotal Product Developme	ent				0	0	21,728	62,078	TBD	TBD
Subtotal Test and Evaluation 0 0 500 1,300 TBD		Subtotal Support and Manag	gement				0	0	1,300	3,000	TBD	TBD
		Subtotal Test and Evaluation	n				0	0	500	1,300	TBD	TBD
Total Project 0 0 23,528 66,378 TBD		Total Project					0	0	23,528	66,378	TBD	TBD
Project A002 Page 10 of 14 Pages Exhibit R-3 (PE 06044	ם	roject A002			Dooo	10 of 14 D	ngas			Evhil	oit D_2 /DE /)604424E\

	RDT&E BUDGET ITEM	JUSTIF	ICATIO	N SHE	ET (R-	2A Exh	ibit)		DATE	Februar	y 2003
	T ACTIVITY System Development and Demons	tration (SDD)		UMBER ANI)4421F (space Sy	ystems			PROJECT A003
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
A003	Rapid Identification Detection and Reporting System (RAIDRS)	0	6,879	6,612	16,442	16,489	12,098	12,409	66,471	Continuing	TBD

(U) A. Mission Description

This effort supports concept exploration, architecture development and engineering and manufacturing development to provide attack warning, threat identification and characterization, and rapid mission impact assessments of U.S. space systems. The concepts explored will investigate the technical architecture, operational concept, support concept development, training, verification (test), and deployment of a Rapid Attack Identification Detection and Reporting System (RAIDRS). Incremental capability deliveries are planned, starting with Proof-of-Concept Demo.

Budget Activity Justification

This program is in Budget Activity 5, System Development and Demonstration, because it supports the engineering and manufacturing development of counterspace and space control systems.

(U) <u>FY 2002 (\$ in Thousands)</u>

(U) \$0 Accomplishments/Planned Program

(U) \$0 No Activity

(U) \$0 Total

(U) <u>FY 2003 (\$ in Thousands)</u>

(U) \$0 Accomplishments/Planned Program

(U) \$4,379 Continue concept definition of a Rapid Attack Identification Detection and Reporting System. Development of an Attack Warning system

architecture.

(U) \$1,500 Begin pre-acquisition demonstration, exercises, and experiments of possible RAIDRS architecture technologies.

(U) \$1,000 Continue system specific risk reduction efforts of advanced technologies.

(U) \$6,879 Total

Project A003 Page 11 of 14 Pages Exhibit R-2A (PE 0604421F)

	RDT&E BUDGET ITEM JUSTIFICAT	ION SH	IEET (R-	2A Exh	nibit)		DATE Feb i	ruary 200	03
=	GET ACTIVITY System Development and Demonstration (SDD)	.	NUMBER AND 604421F (space Sys	tems			ROJECT 1003
(U)	A. Mission Description Continued								
(U) (U) (U) (U) (U)	FY 2004 (\$ in Thousands) \$0	leveloping o	f an Attack W	arning sys	tem architectur	e.	•		ution
(U)	B. Project Change Summary None								
(U)		FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate		FY 2009 Estimate			Total Cost
` ′	Other APPN OPAF (PE 0604421F), Counterspace Systems, P-68			25,691	26,936	23,630	Continuin	ıg	TBD
(U)	D. Acquisition Strategy All contracts funded in this program element will be awarded using contracts.	ompetitive p	procedures to t	he maximı	ım extent possi	ble.			
(U)	E. Schedule Profile	1	<u>FY 2002</u> 2 3	4	FY 2 1 2		4 1	<u>FY 2004</u> 2 3	4
(U) (U) (U) (U) (U) (U)	Potential attack reporting solutions and architecture studies Begin development of Attack Warning architecture (PE0603438F) Attack Warning concept definition (Proof-of Concept Experiment) Attack Warning architecture defined Satellite as a Sensor (SAS) prototype deliveries Radio Frequency Interference Detection System (RFIDS) prototype		*		*	X 2	X X X X	X	X X
P	roject A003	Page 12 o	of 14 Pages				Exhibit R-	2A (PE 060	04421F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)									DAT	DATE February 2003			
=	GET ACTIVITY - System Development and Demonstration (SDD)		PE NUMBER AND TITLE 0604421F Counterspace Systems								PROJ A00		
(U)	E. Schedule Profile Continued		FY	2002			FY 2	2003			FY 2	2004	
	RAIDRS Milestone Decision (KDP B) System Development and Demonstration Contract Award * = Completed Event X = Scheduled Event	1	2	3	4	1	2	3	4	1	2	3 X X	4
F	Project A003	Page	e 13 of 1	4 Pages					E	xhibit R	R-2A (PE	06044	21F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 2003			
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD)					•	er and title 21F Count	erspace S	<u>-</u>		PROJECT A003			
(U)	A. Project Cost Breakdow	n (\$ in Thousan	<u>ds</u>)										
				FY 20	<u>03</u>	FY 2004							
(U)	Concept definition of a Rapid Attack Identification Detection and Reporting S						0			79	3,912		
(U)	Pre-Milestone B activities							0	1,500		1,500		
(U)	System risk reduction activities of advanced technologies 0								1,00	00			
(U)	Program Office and other To	Program Office and other Technical Support									1,200		
(U)	Total							0	6,87	79	6,612		
(U)	B. Budget Acquisition Hist	ory and Plannii	ng Informatio	n (\$ in Thousand	<u>ls</u>)								
(U)	Performing Organizations	<u>:</u>											
	Contractor or	Contract											
	Government	Method/Type	Award or	Performing	Project								
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>		
	Activity	Vehicle	Date	EAC	EAC	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program		
	Product Development Organizations												
	MAPIC (TRW)	CPAF				0	0	2,687	4,059	Continuing	TBD		
	FFRDC, Various SETA, SPO	O CPAF	Various	N/A	N/A	0	0	2,130	1,500	Continuing			
	CERES	MIPR	TBD	999	999	0	0	999		0	999		
	Note: MAPIC Contract awarded in FY02 under PE 0603438F, Space Control Technology												
	Support and Management Organizations												
	SMC/Various SETAs	Various	Various	N/A	N/A	0	0	1,063	1,053	Continuing	TBD		
	Test and Evaluation Organiz	zations								· ·			
	_					Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>		
	Subtotals					to FY 2002	FY 2002	FY 2003	FY 2004	Complete			
	Subtotal Product Developme	ent				0	0	5,816	5,559	TBD	TBD		
	Subtotal Support and Manag					0	0	1,063	1,053	TBD	TBD		
	Subtotal Test and Evaluation							,	,				
	Total Project					0	0	6,879	6,612	TBD	TBD		
Project A003 Page 14 of 14 Pages									Exhibit R-3 (PE 0604421F)				
				- "5"							,		